

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 09-83**

**Award of Construction Contract for  
Segment 1 of the 290 East Toll Project**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et seq.* (the "RMA Rules"); and

WHEREAS, the Board of Directors of the CTRMA has been constituted in accordance with the Transportation Code and the RMA Rules; and

WHEREAS, in a minute order approved on August 25, 2005, the Texas Transportation Commission (the "Commission") authorized the CTRMA to pursue the development of the 290 East Toll Project (the "Project"); and

WHEREAS, on December 1, 2008, CAMPO approved the business terms incorporated in the Market Valuation Agreement regarding the Project as required by Section 228.0111(g) of the Texas Transportation Code; and

WHEREAS, in Resolution No. 08-62, dated December 17, 2008, the Board of Directors exercised the option of the CTRMA to develop the Project as provided for under the process and procedures of Section 228.0111 of the Texas Transportation Code ("Code"); and

WHEREAS, on March 17, 2009, the CTRMA formally notified the Texas Department of Transportation ("TxDOT") that it had exercised its option to develop the Project pursuant to Section 228.0111 of the Code; and

WHEREAS, the federal government, through the American Recovery and Reinvestment Act ("ARRA"), has provided stimulus funding to the State of Texas for numerous purposes, including the undertaking of various infrastructure and transportation projects; and

WHEREAS, the Commission at a special called meeting on March 5, 2009 approved a list of state transportation infrastructure projects to be funded by ARRA funding, including a portion of the Project involving the construction of four direct connectors at the intersection of US 183 and US 290 East currently on the state highway system (the "Segment 1 290E Improvements"); and

WHEREAS, on October 5, 2009 TxDOT and the CTRMA executed a Project Development Agreement for the construction of the Segment 1 290E Improvements which authorized the CTRMA to construct such Improvements on the state highway system and utilize ARRA funds; and

WHEREAS, the CTRMA Board of Directors has adopted a Policy Regarding the Procurement of Good and Services (the "Procurement Policies") that provides a process for procuring various services required by the CTRMA, including construction services related to the construction of the Segment 1 290E Improvements; and

WHEREAS, on October 25, 2009 the CTRMA issued and published an Invitation to Bid seeking bids for the Segment 1 290E Improvements in accordance with the Procurement Policies; and

WHEREAS, on November 23, 2009, six (6) bid proposal packages for the Segment 1 290E Improvements were received and publically opened and read; and

WHEREAS, the bid proposal documents were reviewed and found in order, with W.W. Webber, LLC being found to have the lowest bid in the amount of \$52,575,545.77; and

WHEREAS, the Executive Director, based on the recommendation of the CTRMA's General Engineering Consultant PBS&J, recommends that a contract with W.W. Webber, LLC be awarded for the Segment 1 290E Improvements and a Notice of Award be issued, contingent upon the issuance of a Concurrence of Award by TxDOT, and the delivery by W.W. Webber, LLC of all necessary documentation, bonds and insurance certification.


NOW THEREFORE, BE IT RESOLVED, that the Board of Directors of the CTRMA hereby adopts the recommendation of the Executive Director and PBS&J that a contract with W.W. Webber, LLC be awarded for the Segment 1 290E Improvements and a Notice of Award be issued, contingent upon the issuance of a Concurrence of Award by TxDOT, and the delivery by W.W. Webber, LLC of all necessary documentation, bonds and insurance certification; and


NOW THEREFORE, BE IT FURTHER RESOLVED, that the Board of Directors authorizes the Executive Director to request the issuance of a Concurrence of Award by TxDOT, and to finalize and execute the contract on the terms and conditions acceptable to the Executive Director and consistent with the Invitation to Bid, the Procurement Policy, and the bid proposal documents received from the W.W. Webber, LLC., and that the Executive Director and CTRMA staff undertake all further actions necessary to cause the Segment 1 290E Improvements to be initiated.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 17th day of December, 2009.

Submitted and reviewed by:

Approved:

  
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Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

  
\_\_\_\_\_  
Ray A. Wilkerson  
Chairman, Board of Directors  
Resolution Number 09-83  
Date Passed 12/17/09



An employee-owned company

December 9, 2009

Mr. Wesley Burford  
Director of Engineering  
Central Texas Regional Mobility Authority  
301 Congress, Suite 650  
Austin, Texas 78701

Subject: 290E Toll Project  
Direct Connectors at US 183  
Contract No.: 10290E22701C  
Recommendation for Contract Award

Dear Mr. Burford:

PBS&J recommends award of the subject construction contract to the apparent and true low bidder, W.W. Webber, LLC.

The project was advertised on October 23, 2009 and bids were opened on November 23, 2009. There were 15 bidders prequalified and 6 bids received. The low bid on this project was \$52,575,545.77, which is 29.9% below the Engineer's estimate of \$75,021,796.00.

This recommendation is made based on the following:

1. W.W. Webber, LLC.'s bid proposal conforms to the requirements specified in the Official Proposal Documents.
2. As stated in the enclosed Bid Evaluation Report, an unbalanced bid review has determined that the bid is not mathematically or materially unbalanced.

Sincerely,

A handwritten signature in black ink, appearing to read 'Eric J. Ploch'.

Eric J. Ploch, P.E.  
Program Manager

Enclosure: Bid Evaluation Report

CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY

# Bid Evaluation Report

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290E Toll Project  
Direct Connectors at US 183

December 7, 2009



## Project Information

The 290E Direct Connectors at US 183 project includes the construction of direct connectors, mainlanes, frontage roads, and ramps consisting of grading, bridge structure, pavement, curb and gutter, retaining wall, storm sewer, SW3P, illumination, signing and pavement marking, traffic management system, toll facility infrastructure. No Right-of-Way is required for the construction. Four (4) minor utility adjustments are required. The project is funded by a grant through the American Recovery and Reinvestment Act (ARRA) of 2009. Project and contract identifiers are summarized below:

CTRMA Contract Number:	10290E22701C
TxDOT CSJ Number:	0114-02-090
Federal Aid Project Number:	STP(2009)489ES

## Project Delivery Methodology

The CTRMA developed an Alternative Design-Bid-Build project delivery approach specifically tailored for both the 290 East Toll Project and the 183A Phase II Toll Project. This approach combines elements from typical Design-Build processes (which are often favored by investors) and traditional Design-Bid-Build procedures. One element taken from the Design-Build process is lump-sum payment. With the exception of the "Special Measurement Items" as specified in Special Provision 009, the Engineer will not measure work items; and therefore, risk for the accuracy of all other plans quantities is borne by the Contractor. The goal is to achieve a balanced risk allocation between the CTRMA and its Contractors which:

- Provides bond holders with a large degree of both cost and schedule certainty
- Ensure that CTRMA is in a position to successfully and efficiently deliver the project
- Does not place a disproportional amount of risk on the Contractor such that bid prices would be unduly increased

## Bid Process Summary

To ensure that multiple bids were received for the project, the CTRMA began coordination with the heavy construction industry early in the design process and continued the effort through the bid opening. A summary of the procurement is included below:

- March 20, 2009      Electronic copies of the 60% plans were made available to interested contractors. The notice of availability was given through the Associated General Contractors of America (AGC). CDs containing the plans were provided by the CTRMA.
- May 18, 2009      Electronic copies of the 90% plans were made available to interested contractors. The notice of availability was given through the AGC. The plans were available for download through "CivCastUSA", a plan distribution website.
- October 23, 2009      Official proposals were made available to Contractors who are pre-qualified by the Texas Department of Transportation for an \$80,000,000 bidding capacity. Electronic copies of the construction plans, unofficial proposal documents and project specifications were made available through CivCastUSA.
- October 25, 2009      A Notice of Invitation for Bid Proposals was published in the Austin American Statesman.
- October 29, 2009      A "Pre-Bid" meeting was held at the CTRMA. All interested pre-qualified contractors were required to attend.

The following pre-qualified contractors requested and received official proposal documents:

- Archer-Western Contractors, Ltd.
- AUI Contractors, Inc.
- Austin Bridge & Road, L.P.
- Balfour Beatty Infrastructure, Inc.
- Ballenger Construction Company
- Florida Traffic Control Devices, Inc.
- Hunter Industries
- James Construction Group, L.L.C.
- J.D. Abrams, L.P
- McCarthy Building Companies, Inc.
- Sema Construction
- Texas Sterling Construction Co.
- Williams Brothers Construction Co., Inc.
- W.W. Webber, L.L.C.
- Zachry Construction Corporation

Of the above contractors, four (Texas Sterling Construction Company, Florida Traffic Control Devices, Inc., Hunter Industries and McCarthy Building Companies, Inc.) did not attend the pre-bid meeting and therefore forfeited their right to bid on the project. Six sealed proposals were received by the published deadline of 3:00 PM, November 23, 2009. At the subsequent letting, the proposals were opened and reviewed for responsiveness. A summary of the bidders and bid amounts is compiled below.

Contractor	Total Lump-Sum Bid Amount
Williams Brothers Construction Co., Inc.	\$55,150,388.07
SEMA Construction Group, LLC	\$57,411,909.19
Balfour Beatty Infrastructure, Inc.	\$57,408,554.95
Austin Bridge & Road, LP	\$56,791,117.56
W.W. Webber, LLC	\$52,575,545.77
J.D. Abrams, LP	\$63,871,053.52

All bidders were informed that the bids would be reviewed to ensure they conformed to the proposal were materially balanced and mathematically balanced to determine the true low-bidder. The bidders were further informed that, pending TxDOT approval, a recommendation for award of contract would be made to the CTRMA Board of Directors.



## Bid Proposal Review

After opening and reading of the bids, the bid proposals were reviewed to determine whether the proposals comply with the requirements in Article 2 of the Standard Specifications (Instructions to Bidders) and any supplemental instructions or requirements. The proposal with the lowest Total Lump-Sum Proposal Amount was determined to be a conforming proposal. The low bidder's references have been contacted and favorable responses have been received. In addition, as described below, the low bid was compared against the others to ensure that it was not mathematically or materially unbalanced.

### *Mathematically Unbalanced Bid Analysis*

As defined in TxDOT specifications, a mathematically unbalanced bid is one that contains bid prices that do not reflect reasonable actual costs plus a reasonable proportionate share of the Bidder's anticipated profit, overhead costs, and other indirect costs. The low bid (W.W. Webber, LLC) was compared to the Engineer's estimate to determine whether it is mathematically unbalanced. All bid items were summarized by work category. The percentage and cost variance per category were then calculated. The results are summarized in Table 1 below.

**Table 1: Engineer's Estimate / Low Bid Comparison by Item**

CATEGORY		ENGINEER'S ESTIMATE	W.W. WEBBER BID AMOUNT	VARIANCE	
				%	\$
100	Earthwork and Landscape	\$ 2,011,094	\$ 1,586,204	-21.1%	\$ (424,890)
200	Subgrade Treatments and Base	\$ 1,074,924	\$ 776,334	-27.8%	\$ (298,590)
300	Surface Courses and Pavement	\$ 6,952,801	\$ 5,316,593	-23.5%	\$ (1,636,208)
400	Structures	\$ 51,136,002	\$ 34,718,671	-32.1%	\$ (16,417,331)
500	Miscellaneous Construction	\$ 10,113,548	\$ 7,354,891	-27.3%	\$ (2,758,657)
600	Lighting, Signing, Markings, and Signals	\$ 2,335,063	\$ 1,887,805	-19.2%	\$ (447,258)
SPECIAL ITEMS	Project-Specific Special Specifications	\$ 1,398,364	\$ 935,047	-33.1%	\$ (463,317)
		\$ 75,021,796	\$ 52,575,545	-29.9%	\$ (22,446,251)

As shown in Table 1, the variance of the bid from the Engineer's estimate is relatively constant across all work categories. Although the bid is unbalanced in the sense that it varies by more than 10% from the estimate, the bidder has not proposed a significantly lower bid on any particular category. The bid is not unbalanced, it is consistently low. The entire bid tabulation, with comparison to the Engineer's estimate, is provided as an appendix to this report.

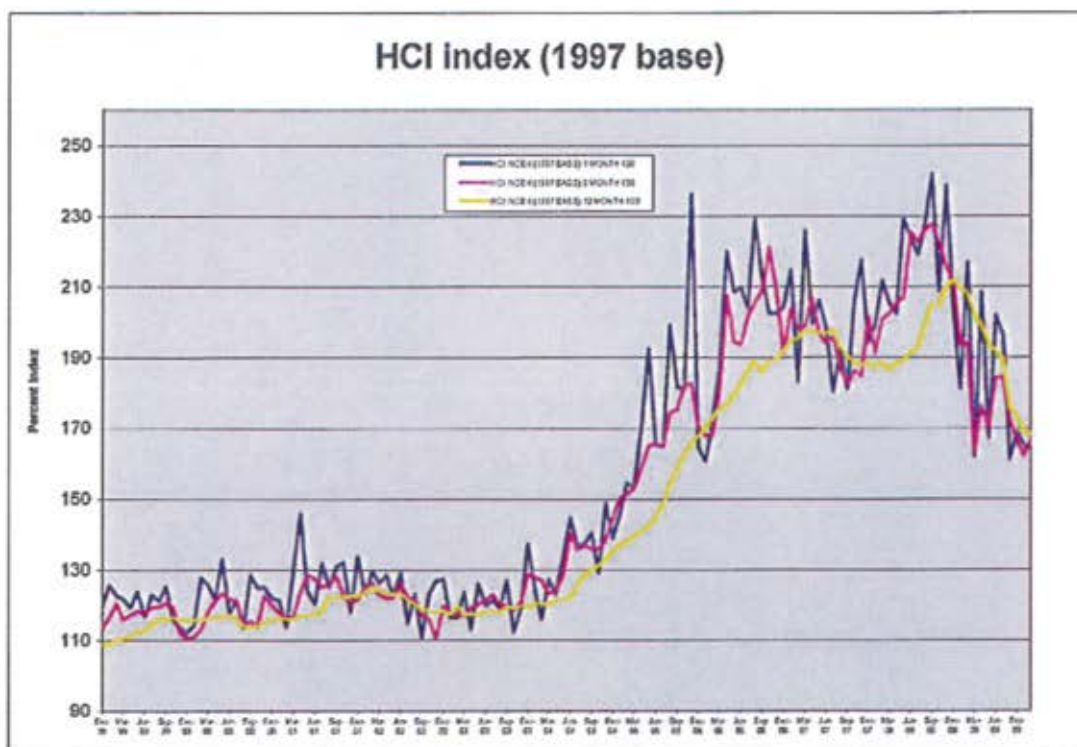
The variance is not due to errors in the construction plans or estimating. The reason for the low bid is two-fold: (1) the recent reduction in highway spending increases competition between contractors,



which drives bids down; and (2) the global economic downturn is decreasing prices for commodities such as steel, gasoline, and concrete.

A review of the Highway Construction Cost Index produced by the Texas Department of Transportation (see Figure 1 below) confirms that although the 290E Toll Project bid discussed in this analysis varies from the Engineer's estimate by -29.9%, it is representative of the trends being seen in Texas highway construction today.

Figure 1: Highway Cost Index, October 2009 (base 1997)



Further, a review of recent locally let projects confirms that the economic slowdown and reduction in highway spending has affected bidding in Central Texas region as well. A summary of projects with Engineer's estimates greater than \$1,000,000 let in the Austin District between April 2009 and October 2009 is compiled in Table 2 below. A review of variance from the engineer's estimate to the low bid amount for these projects shows that the average variance is -30.6%. As stated above, the variance for the subject project is -29.9%. In addition to being representative of the Highway Cost Index for the State of Texas, the variance from the Engineer's estimate is also representative of the local trend.

**Table 2: Recent Austin District Estimate / Bid Variances**

Project Bid Date	County	Description	Engineer's Estimate	Low Bid Amount	% Variance
9-Apr	Travis	Install Traffic Signal	\$ 1,391,250	\$ 899,142	-35.37%
9-Apr	Travis	Resurface Roadway	\$ 2,604,608	\$ 1,696,542	-34.86%
9-Apr	Travis	Resurface Roadway	\$ 3,760,278	\$ 2,330,029	-38.04%
9-Apr	Travis	Resurface Roadway	\$ 2,041,589	\$ 1,054,970	-48.33%
9-Apr	Travis	Resurface Roadway	\$ 5,159,970	\$ 3,300,717	-36.03%
9-Apr	Williamson	Resurface Roadway	\$ 2,015,601	\$ 1,345,918	-33.22%
9-May	Burnet	Resurface Roadway	\$ 2,404,908	\$ 1,858,318	-22.73%
9-May	Williamson	Construct New Roadway Lanes	\$ 15,315,775	\$ 9,292,447	-39.33%
9-May	Caldwell	Resurface Roadway	\$ 6,000,009	\$ 3,794,305	-36.76%
9-Jun	Burnet	Construct Center Turn Lanes	\$ 3,165,820	\$ 1,995,215	-36.98%
9-Aug	Travis	Install Traffic Signal	\$ 1,428,202	\$ 1,362,761	-4.58%
9-Aug	Travis	Replace Bridge	\$ 5,420,540	\$ 4,938,592	-8.89%
9-Aug	Williamson	Construct New Roadway Lanes	\$ 13,277,714	\$ 9,229,357	-30.49%
9-Aug	Hays	Construct Bridge	\$ 12,408,275	\$ 7,858,394	-36.67%
9-Aug	Hays	Replace Bridge	\$ 8,324,784	\$ 5,166,954	-37.93%
9-Aug	Hays	Construct Frontage Roads	\$ 11,972,111	\$ 7,980,242	-33.34%
9-Sep	Burnet	Widen Roadway	\$ 6,143,019	\$ 4,658,026	-24.17%
9-Oct	Travis	Construct Bicycle/Pedestrian Path	\$ 3,257,787	\$ 3,044,285	-6.55%

**Materially Unbalanced Bid Analysis**

In addition to the review for mathematical imbalance, the bid should also be reviewed for material imbalance. As stated in the project specifications, a materially unbalanced bid is defined as a bid that generates a reasonable doubt that award to the Bidder submitting a mathematically unbalanced bid will result in the lowest ultimate cost to the CTRMA. To ensure that the low bid is the lowest ultimate cost to the CTRMA, a two-step process was undertaken.

First, the proposed bid prices for the items that are expected to occur in initial months of the project construction are compared and summed for the two lowest total bid amounts. This comparison is summarized in Table 3.

**Table 3: Comparison of Major Front-End Items for 2 Lowest Bids**

ITEM NO	DESCRIPTION	UNITS	QUANTITY	W.W. WEBBER BID (Lowest)	WILLIAMS BROS BID (2 <sup>nd</sup> Lowest)
100 2002	PREPARING ROW	STA	50.00	\$ 203,300	\$ 3,000,000
110 2001	EXCAVATION (ROADWAY)	CY	105342.00	\$ 632,052	\$ 842,736
132 2006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	44725.00	\$ 402,525	\$ 134,175
500 2001	MOBILIZATION	LS	1.0	\$ 4,900,000	\$ 5,500,000
Total				\$ 6,137,877	\$ 9,476,911

The sum of front-end items for the low bid is \$6,137,877. The sum of like items for the 2<sup>nd</sup> lowest bid is \$9,476,911. That the low bid's proposal for the cost of these initial items is less than the 2<sup>nd</sup> lowest bid suggests that the bid is not materially unbalanced.



However, for the sake of due diligence, a second check was performed by comparing the net present values of the two (2) lowest bids. A constant contract time determination schedule was used to predict monthly pay estimates of the 2 low bids for the duration of the project. The net present value of both bids was then compared.

A comparison of the predicted monthly pay estimates for the duration of the project for the 2 low bids is summarized in Table 4.

**Table 4: Predicted Monthly Cash Flows for 2 Lowest Bids**

Month of Payment	Predicted Monthly Estimates	
	Webber	Williams Bros
March-10	\$ 5,029,437.67	\$ 5,698,755.85
April-10	\$ 1,855,139.90	\$ 2,397,707.01
May-10	\$ 2,927,794.08	\$ 4,097,299.15
June-10	\$ 2,033,473.58	\$ 3,227,582.58
July-10	\$ 2,751,172.39	\$ 3,490,868.80
August-10	\$ 1,646,990.44	\$ 2,013,151.00
September-10	\$ 3,121,797.08	\$ 2,908,857.40
October-10	\$ 6,061,568.65	\$ 5,833,864.72
November-10	\$ 4,772,680.09	\$ 4,426,584.32
December-10	\$ 3,730,077.16	\$ 3,219,457.70
January-11	\$ 1,850,425.27	\$ 1,419,534.63
February-11	\$ 2,525,418.14	\$ 3,085,243.71
March-11	\$ 2,743,257.22	\$ 2,248,093.60
April-11	\$ 2,262,509.03	\$ 2,001,360.99
May-11	\$ 2,059,255.38	\$ 1,835,185.74
June-11	\$ 1,660,211.02	\$ 2,648,966.48
July-11	\$ 2,407,401.81	\$ 1,999,405.21
August-11	\$ 1,530,869.55	\$ 1,378,980.11
September-11	\$ 172,977.24	\$ 187,662.08
October-11	\$ 457,139.81	\$ 300,579.09
November-11	\$ 557,948.20	\$ 351,815.15
December-11	\$ 391,122.20	\$ 341,007.45
January-12	\$ 26,879.86	\$ 38,425.30
<b>Total Bid Amount</b>	<b>\$ 52,575,545.77</b>	<b>\$ 55,150,388.07</b>

Using an interest rate of 2.50% APR, the net present value of the lowest bid is \$46,672,850.19; the net present value of the second lowest bid is \$48,601,794.15. This net present value approach to the bid evaluation for material imbalance confirms that the low bid represents the lowest true value for the CTRMA.

### ***Bid Error Information***

No contractor has notified the CTRMA of a bid error, nor was any bid retracted. However, a few minor errors were discovered during the bid analysis:

The 3<sup>rd</sup> lowest bid contained a mathematical error in the bid tabulation for Item 442.2002, Structural Steel (Plate Girder). The contractor incorrectly reported the total amount for this item as \$8,949,066.31; whereas the product of the quantity and proposed unit price shown is \$8,949,663.10. The error caused the contractor understate his Total Lump Sum Bid Amount by \$596.79. This error has no effect on the outcome of the bid analysis.

In addition, there was a discrepancy in significant digits between the hard-copy bid tabulation and the electronic bid tabulation that was provided at the request of the contractors. The hard-copy tabulation displayed a single significant digit for all quantities. The electronic version displayed the same; but, within the cell of the spreadsheet, two significant digits were stored for two bid items: Item 420.2006 CL C Conc (Rail Foundation) and Item 636.2003 Aluminum Signs (TY O). The discrepancy caused all contractors using the electronic form to slightly misreport the total proposed amount for these two items. Five of the six bidders used the electronic form. The proposal with the lowest bid amount was the only proposal to use the hand-written form. The discrepancy has no bearing on the outcome on the result of the bid analysis.

### **Recommendation**

The total lump-sum bid amount proposed by W.W. Webber, LLC is the lowest bid received. The proposal is not mathematically or materially unbalanced. The proposal conforms to all requirements of the Proposal Documents. It is therefore recommended that W.W. Webber be awarded the contract for the subject project.



**290E Toll Project  
Direct Connectors at US 183  
Bid Evaluation Report Appendix**



ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
100 2002	PREPARING ROW	STA	50.0	\$ 4,600.00	\$ 4,066.00	\$ 230,000.00	\$ 203,300.00	-11.61%	\$ 26,700.00
104 2009	REMOVING CONC (RIPRAP)	SY	2145.0	\$ 10.18	\$ 3.00	\$ 21,836.10	\$ 6,435.00	-70.53%	\$ 15,401.10
104 2011	REMOVING CONC (MEDIANS)	SY	118.0	\$ 20.08	\$ 5.00	\$ 2,369.44	\$ 590.00	-75.10%	\$ 1,779.44
104 2014	REMOVING CONC (FOUNDATIONS)	CY	333.0	\$ 810.00	\$ 90.00	\$ 269,730.00	\$ 29,970.00	-88.89%	\$ 239,760.00
104 2015	REMOVING CONC (SIDEWALKS)	SY	41.0	\$ 9.36	\$ 15.00	\$ 383.76	\$ 615.00	60.26%	\$ (231.24)
104 2023	REMOVING CONC (CTB)	LF	330.0	\$ 56.10	\$ 20.00	\$ 18,513.00	\$ 6,600.00	-64.35%	\$ 11,913.00
104 2029	REMOVING CONC (CURB OR CURB & GUTTER)	LF	6738.0	\$ 4.51	\$ 6.00	\$ 30,388.38	\$ 40,428.00	33.04%	\$ (10,039.62)
104 2032	REMOVING CONC (WHEELCHAIR RAMP)	SY	46.0	\$ 26.86	\$ 15.00	\$ 1,235.56	\$ 690.00	-44.15%	\$ 545.56
104 2037	REMOVE CONC (RAIL)	LF	224.0	\$ 5.57	\$ 25.00	\$ 1,247.68	\$ 5,600.00	348.83%	\$ (4,352.32)
110 2001	EXCAVATION (ROADWAY)	CY	105342.0	\$ 7.64	\$ 6.00	\$ 804,812.88	\$ 632,052.00	-21.47%	\$ 172,760.88
110 2003	EXCAVATION (SPECIAL)	CY	1813.0	\$ 8.60	\$ 7.00	\$ 15,591.80	\$ 12,691.00	-18.60%	\$ 2,900.80
132 2006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	44725.0	\$ 8.00	\$ 9.00	\$ 357,800.00	\$ 402,525.00	12.50%	\$ (44,725.00)
160 2003	FURNISHING AND PLACING TOPSOIL (4")	SY	115093.0	\$ 1.11	\$ 1.10	\$ 127,753.23	\$ 126,602.30	-0.90%	\$ 1,150.93
164 2023	CELL FBR MLCH SEED(PERM)(URBAN)(CLAY)	SY	115093.0	\$ 0.30	\$ 0.21	\$ 34,527.90	\$ 24,169.53	-30.00%	\$ 10,358.37
164 2029	CELL FBR MLCH SEED(TEMP)(WARM)	SY	57550.0	\$ 0.18	\$ 0.20	\$ 10,359.00	\$ 11,510.00	11.11%	\$ (1,151.00)
164 2031	CELL FBR MLCH SEED(TEMP)(COOL)	SY	57550.0	\$ 0.18	\$ 0.20	\$ 10,359.00	\$ 11,510.00	11.11%	\$ (1,151.00)
168 2001	VEGETATIVE WATERING	MG	3457.0	\$ 14.59	\$ 15.00	\$ 50,437.63	\$ 51,855.00	2.81%	\$ (1,417.37)
169 2003	SOIL RETENTION BLANKETS (CL 1) (TY C)	SY	15110.0	\$ 1.40	\$ 1.00	\$ 21,154.00	\$ 15,110.00	-28.57%	\$ 6,044.00
169 2006	SOIL RETENTION BLANKETS (CL 2) (TY F)	SY	1317.0	\$ 1.97	\$ 3.00	\$ 2,594.49	\$ 3,951.00	52.28%	\$ (1,356.51)
247 2042	FL BS (CMP IN PLC)(TY A GR 2)(FNAL POS	CY	1813.0	\$ 36.00	\$ 26.00	\$ 65,268.00	\$ 47,138.00	-27.78%	\$ 18,130.00
247 2059	FL BS (CMP IN PLC)(TY E GR 3)(FNAL POS	CY	28046.0	\$ 36.00	\$ 26.00	\$ 1,009,656.00	\$ 729,196.00	-27.78%	\$ 280,460.00
310 2002	PRIME COAT (AE-P)	GAL	23677.1	\$ 3.95	\$ 4.00	\$ 93,524.55	\$ 94,708.40	1.27%	\$ (1,183.86)
341 2014	D-GR HMA(QCQA) TY-B PG70-22	TON	37289.0	\$ 72.00	\$ 60.00	\$ 2,684,808.00	\$ 2,237,340.00	-16.67%	\$ 447,468.00
341 2066	D-GR HMA(QCQA) TY-C PG76-22	TON	2901.0	\$ 86.66	\$ 66.00	\$ 251,400.66	\$ 191,466.00	-23.84%	\$ 59,934.66
346 2002	STONE-MTRX-ASPH SMA-C SAC-A PG76-22	TON	2978.0	\$ 118.13	\$ 73.00	\$ 351,791.14	\$ 217,394.00	-38.20%	\$ 134,397.14
354 2045	PLANE ASPH CONC PAV (2")	SY	1557.0	\$ 1.30	\$ 4.00	\$ 2,024.10	\$ 6,228.00	207.69%	\$ (4,203.90)
360 2007	CONC PVMT (CONT REINF-CRCP)(14")	SY	46209.0	\$ 75.00	\$ 53.00	\$ 3,465,675.00	\$ 2,449,077.00	-29.33%	\$ 1,016,598.00
360 9001	CONC PVMT (GFRPB)(14")	SY	782.0	\$ 75.00	\$ 90.00	\$ 58,650.00	\$ 70,380.00	20.00%	\$ (11,730.00)

**290E Toll Project  
Direct Connectors at US 183  
Bid Evaluation Report Appendix**



ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
368 2001	WIDE FLANGE PAVEMENT TERMINALS	LF	125.0	\$ 359.42	\$ 400.00	\$ 44,927.50	\$ 50,000.00	11.29%	\$ (5,072.50)
400 2011	SAND BACKFILL	CY	143.0	\$ 20.00	\$ 35.00	\$ 2,860.00	\$ 5,005.00	75.00%	\$ (2,145.00)
401 2001	FLOWABLE BACKFILL	CY	682.0	\$ 95.00	\$ 70.00	\$ 64,790.00	\$ 47,740.00	-26.32%	\$ 17,050.00
402 2001	TRENCH EXCAVATION PROTECTION	LF	4761.0	\$ 2.10	\$ 1.00	\$ 9,998.10	\$ 4,761.00	-52.38%	\$ 5,237.10
402 9001	TRENCH EXCAVATION PROTECTION (TELE)	LF	255.0	\$ 2.10	\$ 25.00	\$ 535.50	\$ 6,375.00	1090.48%	\$ (5,839.50)
403 2001	TEMPORARY SPL SHORING	SF	31493.0	\$ 13.36	\$ 6.00	\$ 420,746.48	\$ 188,958.00	-55.09%	\$ 231,788.48
416 2002	DRILL SHAFT (24 IN)	LF	700.0	\$ 130.00	\$ 65.00	\$ 91,000.00	\$ 45,500.00	-50.00%	\$ 45,500.00
416 2004	DRILL SHAFT (36 IN)	LF	2443.0	\$ 166.97	\$ 85.00	\$ 407,907.71	\$ 207,655.00	-49.09%	\$ 200,252.71
416 2006	DRILL SHAFT (48 IN)	LF	3408.0	\$ 388.98	\$ 145.00	\$ 1,325,643.84	\$ 494,160.00	-62.72%	\$ 831,483.84
417 2007	DRILL SHAFT (54 IN)	LF	457.0	\$ 400.00	\$ 160.00	\$ 182,800.00	\$ 73,120.00	-60.00%	\$ 109,680.00
416 2008	DRILL SHAFT (60 IN)	LF	4438.0	\$ 406.65	\$ 240.00	\$ 1,804,712.70	\$ 1,065,120.00	-40.98%	\$ 739,592.70
416 2010	DRILL SHAFT (72 IN)	LF	606.0	\$ 647.74	\$ 290.00	\$ 392,530.44	\$ 175,740.00	-55.23%	\$ 216,790.44
416 2015	DRILL SHAFT (NON-REINFORCED)(12 IN)	LF	21.0	\$ 94.04	\$ 69.00	\$ 1,974.84	\$ 1,449.00	-26.63%	\$ 525.84
416 2018	DRILL SHAFT (SIGN MTS)(24 IN)	LF	101.0	\$ 115.51	\$ 147.00	\$ 11,666.51	\$ 14,847.00	27.26%	\$ (3,180.49)
416 2019	DRILL SHAFT (SIGN MTS)(30 IN)	LF	308.0	\$ 118.97	\$ 192.00	\$ 36,642.76	\$ 59,136.00	61.39%	\$ (22,493.24)
416 2020	DRILL SHAFT (SIGN MTS)(36 IN)	LF	96.0	\$ 251.45	\$ 202.00	\$ 24,139.20	\$ 19,392.00	-19.67%	\$ 4,747.20
416 2023	DRILL SHAFT (SIGN MTS)(54 IN)	LF	44.0	\$ 433.07	\$ 338.00	\$ 19,055.08	\$ 14,872.00	-21.95%	\$ 4,183.08
416 2026	DRILL SHAFT (HIGH MAST POLE)(60 IN)	LF	125.0	\$ 476.23	\$ 405.00	\$ 59,528.75	\$ 50,625.00	-14.96%	\$ 8,903.75
416 2029	DRILL SHAFT (RDWY ILL POLE) (30 IN)	LF	72.0	\$ 182.49	\$ 157.00	\$ 13,139.28	\$ 11,304.00	-13.97%	\$ 1,835.28
420 2003	CL C CONC (ABUT)	CY	105.8	\$ 713.38	\$ 400.00	\$ 75,475.60	\$ 42,320.00	-43.93%	\$ 33,155.60
420 2004	CL C CONC (BENT)	CY	14.2	\$ 890.00	\$ 800.00	\$ 12,638.00	\$ 11,360.00	-10.11%	\$ 1,278.00
420 2006	CL C CONC (RAIL FOUNDATION)	CY	1201.7	\$ 487.79	\$ 300.00	\$ 586,177.24	\$ 360,510.00	-38.50%	\$ 225,667.24
420 2018	CL C CONC (FOOTING)(MASS PLACEMENT)	CY	3253.7	\$ 584.91	\$ 400.00	\$ 1,903,121.67	\$ 1,301,480.00	-31.61%	\$ 601,641.67
420 2024	CL F CONC (BENT)(MASS PLACEMENT)	CY	12817.8	\$ 657.00	\$ 460.00	\$ 8,421,294.60	\$ 5,896,188.00	-29.98%	\$ 2,525,106.60
420 2033	CL S CONC (APPR SLAB)	CY	237.9	\$ 403.37	\$ 350.00	\$ 95,961.72	\$ 83,265.00	-13.23%	\$ 12,696.72
420 2051	CL C CONC (COLUMN)	CY	295.2	\$ 1,000.00	\$ 600.00	\$ 295,200.00	\$ 177,120.00	-40.00%	\$ 118,080.00
420 9001	CL C CONC (PRECAST TRUSS ENCL)	CY	20.4	\$ 1,000.00	\$ 3,000.00	\$ 20,400.00	\$ 61,200.00	200.00%	\$ (40,800.00)
422 2001	REINF CONC SLAB	SF	490819.0	\$ 13.07	\$ 11.00	\$ 6,415,004.33	\$ 5,399,009.00	-15.84%	\$ 1,015,995.33



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ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
423 2001	RETAINING WALL (MSE)	SF	56999.0	\$ 38.85	\$ 30.00	\$ 2,214,411.15	\$ 1,709,970.00	-22.78%	\$ 504,441.15
423 2011	RETAINING WALL (DRILL SHAFT)(FACIA)	SF	4968.0	\$ 75.00	\$ 41.00	\$ 372,600.00	\$ 203,688.00	-45.33%	\$ 168,912.00
423 2012	RETAINING WALL (CAST-IN-PLACE)	SF	382.0	\$ 48.00	\$ 41.00	\$ 18,336.00	\$ 15,662.00	-14.58%	\$ 2,674.00
425 2004	PRESTR CONC BEAM (TY IV)	LF	49545.4	\$ 95.16	\$ 95.00	\$ 4,714,740.26	\$ 4,706,813.00	-0.17%	\$ 7,927.26
428 2001	CONC SURF TREAT (CLASS I)	SY	7323.0	\$ 1.73	\$ 1.00	\$ 12,668.79	\$ 7,323.00	-42.20%	\$ 5,345.79
428 2002	CONC SURF TREAT (CLASS II)	SY	50928.0	\$ 4.50	\$ 3.00	\$ 229,176.00	\$ 152,784.00	-33.33%	\$ 76,392.00
432 2001	RIPRAP (CONC)(4 IN)	CY	27.0	\$ 428.87	\$ 300.00	\$ 11,579.49	\$ 8,100.00	-30.05%	\$ 3,479.49
432 2002	RIPRAP (CONC)(5 IN)	CY	598.0	\$ 287.44	\$ 300.00	\$ 171,889.12	\$ 179,400.00	4.37%	\$ (7,510.88)
434 2035	ELASTOMERIC BEAR (ES6)	EA	35.0	\$ 3,500.00	\$ 2,500.00	\$ 122,500.00	\$ 87,500.00	-28.57%	\$ 35,000.00
434 2041	ELASTOMERIC BEAR (F9)	EA	5.0	\$ 3,500.00	\$ 2,500.00	\$ 17,500.00	\$ 12,500.00	-28.57%	\$ 5,000.00
434 2067	ELASTOMERIC BEAR (E8)	EA	10.0	\$ 2,844.05	\$ 2,500.00	\$ 28,440.50	\$ 25,000.00	-12.10%	\$ 3,440.50
434 2072	ELASTOMERIC BEAR (F7)	EA	5.0	\$ 3,647.96	\$ 2,500.00	\$ 18,239.80	\$ 12,500.00	-31.47%	\$ 5,739.80
434 2073	ELASTOMERIC BEAR (F8)	EA	10.0	\$ 2,844.05	\$ 2,500.00	\$ 28,440.50	\$ 25,000.00	-12.10%	\$ 3,440.50
434 2087	ELASTOMERIC BEAR (EE4)	EA	5.0	\$ 3,500.00	\$ 2,500.00	\$ 17,500.00	\$ 12,500.00	-28.57%	\$ 5,000.00
434 2088	ELASTOMERIC BEAR (EF4)	EA	5.0	\$ 3,500.00	\$ 2,500.00	\$ 17,500.00	\$ 12,500.00	-28.57%	\$ 5,000.00
435 2089	ELASTOMERIC BEAR (E6)	EA	5.0	\$ 3,500.00	\$ 2,500.00	\$ 17,500.00	\$ 12,500.00	-28.57%	\$ 5,000.00
434 2095	ELASTOMERIC BEAR (E-10)	EA	5.0	\$ 3,500.00	\$ 2,500.00	\$ 17,500.00	\$ 12,500.00	-28.57%	\$ 5,000.00
434 2116	ELASTOMERIC BEAR (F10)	EA	10.0	\$ 3,500.00	\$ 2,500.00	\$ 35,000.00	\$ 25,000.00	-28.57%	\$ 10,000.00
434 9001	ELASTOMERIC BEAR (E7)	EA	10.0	\$ 3,500.00	\$ 2,500.00	\$ 35,000.00	\$ 25,000.00	-28.57%	\$ 10,000.00
434 9002	ELASTOMERIC BEAR (ES7)	EA	10.0	\$ 3,500.00	\$ 2,500.00	\$ 35,000.00	\$ 25,000.00	-28.57%	\$ 10,000.00
434 9003	ELASTOMERIC BEAR (ES8)	EA	10.0	\$ 3,500.00	\$ 2,500.00	\$ 35,000.00	\$ 25,000.00	-28.57%	\$ 10,000.00
434 9004	ELASTOMERIC BEAR (ES10)	EA	5.0	\$ 3,500.00	\$ 2,500.00	\$ 17,500.00	\$ 12,500.00	-28.57%	\$ 5,000.00
442 2002	STR STL (PLATE GIRDER)	LB	9420698.0	\$ 1.67	\$ 0.89	\$ 15,732,565.66	\$ 8,384,421.22	-46.71%	\$ 7,348,144.44
442 2005	STR STL (MISCELLANEOUS)	LB	191269.0	\$ 7.75	\$ 0.98	\$ 1,482,334.75	\$ 187,443.62	-87.35%	\$ 1,294,891.13
450 2007	RAIL (TY T501)	LF	7542.2	\$ 36.15	\$ 38.00	\$ 272,650.53	\$ 286,603.60	5.12%	\$ (13,953.07)
450 2045	RAIL (TY T501)(MOD)	LF	32060.2	\$ 45.00	\$ 50.00	\$ 1,442,709.00	\$ 1,603,010.00	11.11%	\$ (160,301.00)
454 2001	SEALED EXPANSION JOINT (4 IN)(SEJ-A)	LF	2282.0	\$ 105.00	\$ 92.00	\$ 239,610.00	\$ 209,944.00	-12.38%	\$ 29,666.00
455 2002	SEALED EXPANSION JOINT (4 IN)(SEJ-P)	LF	73.0	\$ 200.00	\$ 90.00	\$ 14,600.00	\$ 6,570.00	-55.00%	\$ 8,030.00

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ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
454 2005	ARMOR JOINT (WITH SEAL)	LF	235.0	\$ 74.29	\$ 65.00	\$ 17,458.15	\$ 15,275.00	-12.51%	\$ 2,183.15
454 9001	SEALED EXPANSION JOINT (5 IN)(SEJ-P)(MOD)	LF	469.0	\$ 199.76	\$ 150.00	\$ 93,687.44	\$ 70,350.00	-24.91%	\$ 23,337.44
459 2002	GABIONS (GALV)	CY	16.0	\$ 227.70	\$ 170.00	\$ 3,643.20	\$ 2,720.00	-25.34%	\$ 923.20
460 2001	CMP (GAL STL 12 IN)	LF	800.0	\$ 23.65	\$ 22.00	\$ 18,920.00	\$ 17,600.00	-6.98%	\$ 1,320.00
464 2003	RC PIPE (CL III)(18 IN)	LF	5213.0	\$ 49.49	\$ 44.00	\$ 257,991.37	\$ 229,372.00	-11.09%	\$ 28,619.37
464 2005	RC PIPE (CL III)(24 IN)	LF	1646.0	\$ 72.02	\$ 50.00	\$ 118,544.92	\$ 82,300.00	-30.57%	\$ 36,244.92
465 2002	INLET (COMPL)(TY E)	EA	12.0	\$ 2,137.50	\$ 6,000.00	\$ 25,650.00	\$ 72,000.00	180.70%	\$ (46,350.00)
465 2010	INLET (COMPL)(TY AAD)	EA	20.0	\$ 3,137.73	\$ 3,500.00	\$ 62,754.60	\$ 70,000.00	11.55%	\$ (7,245.40)
465 2013	MANH (COMPL)(TY A)	EA	4.0	\$ 7,091.55	\$ 3,500.00	\$ 28,366.20	\$ 14,000.00	-50.65%	\$ 14,366.20
465 2091	MANH (COMPL)(JUNCT BOX)(SPL)	EA	20.0	\$ 7,091.55	\$ 4,000.00	\$ 141,831.00	\$ 80,000.00	-43.59%	\$ 61,831.00
465 2133	INLET (COMPL)(TY IIR)(10')	EA	8.0	\$ 6,007.50	\$ 7,000.00	\$ 48,060.00	\$ 56,000.00	16.52%	\$ (7,940.00)
465 2134	INLET (COMPL)(TY IIR)(15')	EA	1.0	\$ 7,061.29	\$ 8,600.00	\$ 7,061.29	\$ 8,600.00	21.79%	\$ (1,538.71)
465 2174	INLET (COMPL)(DROP)(TY I)(1 GRATE)	EA	13.0	\$ 4,210.00	\$ 4,000.00	\$ 54,730.00	\$ 52,000.00	-4.99%	\$ 2,730.00
465 2271	INLET (COMPL)(CURB)(TY IR)(10')	EA	4.0	\$ 7,350.00	\$ 7,000.00	\$ 29,400.00	\$ 28,000.00	-4.76%	\$ 1,400.00
465 2308	INLET (COMPL)(DRIVEWAY DRAIN)	EA	1.0	\$ 11,700.00	\$ 9,000.00	\$ 11,700.00	\$ 9,000.00	-23.08%	\$ 2,700.00
467 2222	SET (TY II)(18 IN)(RCP)(4:1)(C)	EA	1.0	\$ 659.45	\$ 1,000.00	\$ 659.45	\$ 1,000.00	51.64%	\$ (340.55)
467 2224	SET (TY II)(24 IN)(RCP)(4:1)(C)	EA	2.0	\$ 1,109.84	\$ 1,000.00	\$ 2,219.68	\$ 2,000.00	-9.90%	\$ 219.68
467 2234	SET (TY II)(18 IN)(RCP)(6:1)(C)	EA	1.0	\$ 1,071.79	\$ 1,200.00	\$ 1,071.79	\$ 1,200.00	11.96%	\$ (128.21)
471 2003	GRATE & FRAME	EA	37.0	\$ 2,518.09	\$ 1,200.00	\$ 93,169.33	\$ 44,400.00	-52.34%	\$ 48,769.33
479 2006	ADJUST INLET (CAP)	EA	4.0	\$ 1,155.72	\$ 3,000.00	\$ 4,622.88	\$ 12,000.00	159.58%	\$ (7,377.12)
481 2012	PVC PIPE (SCH 40)(6 IN)	LF	2293.0	\$ 12.60	\$ 15.00	\$ 28,891.80	\$ 34,395.00	19.05%	\$ (5,503.20)
496 2002	REMOV STR (INLET)	EA	9.0	\$ 770.15	\$ 500.00	\$ 6,931.35	\$ 4,500.00	-35.08%	\$ 2,431.35
496 2004	REMOV STR (SET)	EA	8.0	\$ 338.50	\$ 500.00	\$ 2,708.00	\$ 4,000.00	47.71%	\$ (1,292.00)
496 2007	REMOV STR (PIPE)	LF	377.0	\$ 22.53	\$ 8.00	\$ 8,493.81	\$ 3,016.00	-64.49%	\$ 5,477.81
500 2001	MOBILIZATION	LS	1.0	\$ 8,000,000.00	\$ 4,900,000.00	\$ 8,000,000.00	\$ 4,900,000.00	-38.75%	\$ 3,100,000.00
502 2001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	24.0	\$ 4,375.00	\$ 20,000.00	\$ 105,000.00	\$ 480,000.00	357.14%	\$ (375,000.00)
506 2002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	120.0	\$ 22.76	\$ 18.00	\$ 2,731.20	\$ 2,160.00	-20.91%	\$ 571.20
506 2009	ROCK FILTER DAMS (REMOVE)	LF	120.0	\$ 11.45	\$ 9.00	\$ 1,374.00	\$ 1,080.00	-21.40%	\$ 294.00



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ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
506 2016	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	420.0	\$ 17.00	\$ 10.00	\$ 7,140.00	\$ 4,200.00	-41.18%	\$ 2,940.00
506 2019	CONSTRUCTION EXITS (REMOVE)	SY	420.0	\$ 7.00	\$ 6.00	\$ 2,940.00	\$ 2,520.00	-14.29%	\$ 420.00
506 2031	SANDBAGS FOR EROSION CONTROL	EA	392.0	\$ 6.85	\$ 6.00	\$ 2,685.20	\$ 2,352.00	-12.41%	\$ 333.20
506 2034	TEMPORARY SEDIMENT CONTROL FENCE	LF	8157.0	\$ 3.39	\$ 3.00	\$ 27,652.23	\$ 24,471.00	-11.50%	\$ 3,181.23
508 2002	CONSTRUCTING DETOURS	SY	10205.0	\$ 51.03	\$ 60.00	\$ 520,761.15	\$ 612,300.00	17.58%	\$ (91,538.85)
508 2005	CONSTRUCTING DETOURS (EBSS)	SY	3743.0	\$ 8.17	\$ 7.00	\$ 30,580.31	\$ 26,201.00	-14.32%	\$ 4,379.31
512 2011	PORT CTB (DES SOURCE)(SAFETY SH)(TY 2)	LF	16830.0	\$ 6.79	\$ 6.00	\$ 114,275.70	\$ 100,980.00	-11.63%	\$ 13,295.70
512 2017	PORT CTB (DES SOURCE)(LOW PROF)(TY 1)	LF	6180.0	\$ 8.00	\$ 7.00	\$ 49,440.00	\$ 43,260.00	-12.50%	\$ 6,180.00
512 2018	PORT CTB (DES SOURCE)(LOW PROF)(TY 2)	LF	280.0	\$ 7.00	\$ 8.00	\$ 1,960.00	\$ 2,240.00	14.29%	\$ (280.00)
512 2020	PORT CTB (MOVE)(SAFETY SH)(TY 2)	LF	4800.0	\$ 6.35	\$ 4.00	\$ 30,480.00	\$ 19,200.00	-37.01%	\$ 11,280.00
512 2026	PORT CTB (MOVE)(LOW PROF)(TY 1)	LF	5240.0	\$ 3.40	\$ 4.00	\$ 17,816.00	\$ 20,960.00	17.65%	\$ (3,144.00)
512 2027	PORT CTB (MOVE)(LOW PROF)(TY 2)	LF	120.0	\$ 6.52	\$ 5.00	\$ 782.40	\$ 600.00	-23.31%	\$ 182.40
512 2029	PORT CTB (STKPL)(SAFETY SH)(TY 2)	LF	16830.0	\$ 7.00	\$ 6.00	\$ 117,810.00	\$ 100,980.00	-14.29%	\$ 16,830.00
512 2035	PORT CTB (STKPL)(LOW PROF)(TY 1)	LF	6180.0	\$ 6.00	\$ 6.00	\$ 37,080.00	\$ 37,080.00	0.00%	\$ -
512 2036	PORT CTB (STKPL)(LOW PROF)(TY 2)	LF	280.0	\$ 10.00	\$ 8.00	\$ 2,800.00	\$ 2,240.00	-20.00%	\$ 560.00
514 2015	PERM CONC TRF BARR (F-SHAPE)(TY 1)	LF	3000.0	\$ 44.00	\$ 45.00	\$ 132,000.00	\$ 135,000.00	2.27%	\$ (3,000.00)
529 2001	CONC CURB (TY I)	LF	804.0	\$ 12.83	\$ 9.00	\$ 10,315.32	\$ 7,236.00	-29.85%	\$ 3,079.32
529 2003	CONC CURB & GUTTER (TY I)	LF	66.0	\$ 17.33	\$ 25.00	\$ 1,143.78	\$ 1,650.00	44.26%	\$ (506.22)
529 2004	CONC CURB & GUTTER (TY II)	LF	6782.0	\$ 17.00	\$ 18.00	\$ 115,294.00	\$ 122,076.00	5.88%	\$ (6,782.00)
530 2005	INTERSECTIONS (ACP)	SY	613.0	\$ 18.81	\$ 45.00	\$ 11,530.53	\$ 27,585.00	139.23%	\$ (16,054.47)
530 2010	DRIVEWAYS (CONC)	SY	358.0	\$ 56.00	\$ 75.00	\$ 20,048.00	\$ 26,850.00	33.93%	\$ (6,802.00)
530 2011	DRIVEWAYS (ACP)	SY	149.0	\$ 40.81	\$ 80.00	\$ 6,080.69	\$ 11,920.00	96.03%	\$ (5,839.31)
531 2006	CURB RAMPS (TY 2)	EA	4.0	\$ 1,521.88	\$ 1,000.00	\$ 6,087.52	\$ 4,000.00	-34.29%	\$ 2,087.52
531 2017	CURB RAMPS (TY 21)	EA	1.0	\$ 1,882.19	\$ 1,500.00	\$ 1,882.19	\$ 1,500.00	-20.31%	\$ 382.19
531 2024	CONC SIDEWALK (5")	SY	2221.0	\$ 43.00	\$ 40.00	\$ 95,503.00	\$ 88,840.00	-6.98%	\$ 6,663.00
536 2004	CONC DIRECTIONAL ISLAND	SY	112.0	\$ 60.56	\$ 50.00	\$ 6,782.72	\$ 5,600.00	-17.44%	\$ 1,182.72
538 2001	RIGHT OF WAY MARKERS	EA	20.0	\$ 566.91	\$ 350.00	\$ 11,338.20	\$ 7,000.00	-38.26%	\$ 4,338.20
540 2001	MTL W-BEAM GD FEN (TIM POST)	LF	2500.0	\$ 21.27	\$ 14.00	\$ 53,175.00	\$ 35,000.00	-34.18%	\$ 18,175.00

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540 2005	TERMINAL ANCHOR SECTION	EA	6.0	\$ 550.75	\$ 500.00	\$ 3,304.50	\$ 3,000.00	-9.21%	\$ 304.50
540 2011	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	10.0	\$ 1,598.53	\$ 1,200.00	\$ 15,985.30	\$ 12,000.00	-24.93%	\$ 3,985.30
542 2001	REMOVING METAL BEAM GUARD FENCE	LF	2775.0	\$ 1.83	\$ 2.00	\$ 5,078.25	\$ 5,550.00	9.29%	\$ (471.75)
542 2002	REMOVING TERMINAL ANCHOR SECTION	EA	7.0	\$ 138.83	\$ 200.00	\$ 971.81	\$ 1,400.00	44.06%	\$ (428.19)
544 2001	GUARDRAIL END TREATMENT (INSTALL)	EA	13.0	\$ 2,351.59	\$ 2,000.00	\$ 30,570.67	\$ 26,000.00	-14.95%	\$ 4,570.67
544 2002	GUARDRAIL END TREATMENT (MOVE & RESET)	EA	5.0	\$ 564.57	\$ 2,000.00	\$ 2,822.85	\$ 10,000.00	254.25%	\$ (7,177.15)
544 2003	GUARDRAIL END TREATMENT (REMOVE)	EA	5.0	\$ 346.67	\$ 300.00	\$ 1,733.35	\$ 1,500.00	-13.46%	\$ 233.35
545 2001	CRASH CUSH ATTEN (INSTL)	EA	15.0	\$ 10,574.37	\$ 5,500.00	\$ 158,615.55	\$ 82,500.00	-47.99%	\$ 76,115.55
545 2002	CRASH CUSH ATTEN (MOVE & RESET)	EA	4.0	\$ 3,135.96	\$ 2,000.00	\$ 12,543.84	\$ 8,000.00	-36.22%	\$ 4,543.84
545 2003	CRASH CUSH ATTEN (REMOVE)	EA	13.0	\$ 841.55	\$ 1,000.00	\$ 10,940.15	\$ 13,000.00	18.83%	\$ (2,059.85)
545 2043	CRASH CUSH ATTEN (INSTAL)(TAU-II)(W)	EA	7.0	\$ 29,852.81	\$ 35,000.00	\$ 208,969.67	\$ 245,000.00	17.24%	\$ (36,030.33)
550 2020	CHAIN LINK FENCE (8')(INSTALL)	LF	248.0	\$ 100.00	\$ 30.00	\$ 24,800.00	\$ 7,440.00	-70.00%	\$ 17,360.00
556 2001	PIPE UNDERDRAINS (TY 1) (6")	LF	4121.0	\$ 22.50	\$ 20.00	\$ 92,722.50	\$ 82,420.00	-11.11%	\$ 10,302.50
610 2060	INS RD IL AM (U/P) (TY 1) (.15KW)S	EA	43.0	\$ 1,451.14	\$ 900.00	\$ 62,399.02	\$ 38,700.00	-37.98%	\$ 23,699.02
610 2061	INS RD IL AM (U/P) (TY 2) (.15KW)S	EA	46.0	\$ 1,545.08	\$ 900.00	\$ 71,073.68	\$ 41,400.00	-41.75%	\$ 29,673.68
610 9001	INS RD IL AM (TY DA) 50S-8 (.4 KW)S	EA	1.0	\$ 4,500.00	\$ 4,000.00	\$ 4,500.00	\$ 4,000.00	-11.11%	\$ 500.00
610 9002	INS RD IL AM (TY DA) 50T-8 (.4 KW)S	EA	4.0	\$ 4,500.00	\$ 4,000.00	\$ 18,000.00	\$ 16,000.00	-11.11%	\$ 2,000.00
610 9003	INS RD IL AM (TY DA) 40S-8 (.25 KW)S	EA	1.0	\$ 3,500.00	\$ 4,000.00	\$ 3,500.00	\$ 4,000.00	14.29%	\$ (500.00)
610 9004	INS RD IL AM (TY DA) 40T-8 (.25 KW)S	EA	3.0	\$ 3,500.00	\$ 4,000.00	\$ 10,500.00	\$ 12,000.00	14.29%	\$ (1,500.00)
610 9005	INS RD IL AM (TY SD) 38S-8 (.4 KW)S	EA	2.0	\$ 3,500.00	\$ 4,000.00	\$ 7,000.00	\$ 8,000.00	14.29%	\$ (1,000.00)
613 2005	HI MST IL POLE (150 FT) ( 80 MPH)	EA	2.0	\$ 29,053.79	\$ 22,000.00	\$ 58,107.58	\$ 44,000.00	-24.28%	\$ 14,107.58
614 2001	HI MST IL ASM(12-400 WATT)(ASYM)(TY A)	EA	1.0	\$ 25,321.80	\$ 23,000.00	\$ 25,321.80	\$ 23,000.00	-9.17%	\$ 2,321.80
614 2002	HI MST IL ASM(12-400 WATT)(ASYM)(TY B)	EA	1.0	\$ 29,703.75	\$ 23,000.00	\$ 29,703.75	\$ 23,000.00	-22.57%	\$ 6,703.75
614 9001	REAIM HIGH MAST FIXTURES	EA	1.0	\$ 7,500.00	\$ 1,200.00	\$ 7,500.00	\$ 1,200.00	-84.00%	\$ 6,300.00
618 2007	CONDT (HDPE) (1")	LF	1080.0	\$ 6.00	\$ 22.00	\$ 6,480.00	\$ 23,760.00	266.67%	\$ (17,280.00)
618 2008	CONDT (HDPE) (2")	LF	240.0	\$ 4.50	\$ 23.00	\$ 1,080.00	\$ 5,520.00	411.11%	\$ (4,440.00)
618 2018	CONDT (PVC) (SCHD 40) ( 2")	LF	27702.0	\$ 7.73	\$ 7.00	\$ 214,136.46	\$ 193,914.00	-9.44%	\$ 20,222.46
618 2019	CONDT (PVC) (SCHD 40) (2") (BORE)	LF	1143.0	\$ 19.83	\$ 21.00	\$ 22,665.69	\$ 24,003.00	5.90%	\$ (1,337.31)



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ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
618 2022	CONDT (PVC) (SCHD 40) (3")	LF	220.0	\$ 12.58	\$ 13.00	\$ 2,767.60	\$ 2,860.00	3.34%	\$ (92.40)
618 2035	CONDT (PVC) (SCHD 80) (2") (BORE)	LF	1320.0	\$ 21.22	\$ 22.00	\$ 28,010.40	\$ 29,040.00	3.68%	\$ (1,029.60)
618 2040	CONDT (PVC) (SCHD 80) (4")	LF	40.0	\$ 15.00	\$ 19.00	\$ 600.00	\$ 760.00	26.67%	\$ (160.00)
618 2046	CONDT (RM) (1")	LF	10064.0	\$ 17.89	\$ 9.00	\$ 180,044.96	\$ 90,576.00	-49.69%	\$ 89,468.96
618 2052	CONDT (RM) (2")	LF	1130.0	\$ 19.28	\$ 11.00	\$ 21,786.40	\$ 12,430.00	-42.95%	\$ 9,356.40
618 9001	CONDT (FLEXIBLE)(LIQUID TIGHT)(3")	LF	32.0	\$ 250.00	\$ 83.00	\$ 8,000.00	\$ 2,656.00	-66.80%	\$ 5,344.00
618 9002	CABLE TRAY (4"x4")(GALV)	LF	202.0	\$ 200.00	\$ 31.00	\$ 40,400.00	\$ 6,262.00	-84.50%	\$ 34,138.00
620 2004	ELEC CONDR (NO. 2) INSULATED	LF	138.0	\$ 3.55	\$ 2.00	\$ 489.90	\$ 276.00	-43.66%	\$ 213.90
620 2007	ELEC CONDR (NO. 4) BARE	LF	1250.0	\$ 1.60	\$ 2.00	\$ 2,000.00	\$ 2,500.00	25.00%	\$ (500.00)
620 2008	ELEC CONDR (NO. 4) INSULATED	LF	1080.0	\$ 2.20	\$ 2.00	\$ 2,376.00	\$ 2,160.00	-9.09%	\$ 216.00
620 2009	ELEC CONDR (NO. 6) BARE	LF	26403.0	\$ 1.29	\$ 1.00	\$ 34,059.87	\$ 26,403.00	-22.48%	\$ 7,656.87
620 2010	ELEC CONDR (NO. 6) INSULATED	LF	2652.0	\$ 1.88	\$ 2.00	\$ 4,985.76	\$ 5,304.00	6.38%	\$ (318.24)
620 2011	ELEC CONDR (NO. 8) BARE	LF	7955.0	\$ 1.20	\$ 1.00	\$ 9,546.00	\$ 7,955.00	-16.67%	\$ 1,591.00
620 2012	ELEC CONDR (NO. 8) INSULATED	LF	19676.0	\$ 1.37	\$ 1.00	\$ 26,956.12	\$ 19,676.00	-27.01%	\$ 7,280.12
620 2013	ELEC CONDR (NO.10) BARE	LF	9384.0	\$ 0.81	\$ 1.00	\$ 7,601.04	\$ 9,384.00	23.46%	\$ (1,782.96)
620 2014	ELEC CONDR (NO.10) INSULATED	LF	18770.0	\$ 0.96	\$ 1.00	\$ 18,019.20	\$ 18,770.00	4.17%	\$ (750.80)
624 2008	GROUND BOX TY A (122311) W/APRON	EA	32.0	\$ 657.88	\$ 620.00	\$ 21,052.16	\$ 19,840.00	-5.76%	\$ 1,212.16
624 2013	GROUND BOX TY D (162922)	EA	13.0	\$ 575.00	\$ 420.00	\$ 7,475.00	\$ 5,460.00	-26.96%	\$ 2,015.00
624 2014	GROUND BOX TY D (162922) W/APRON	EA	21.0	\$ 783.50	\$ 700.00	\$ 16,453.50	\$ 14,700.00	-10.66%	\$ 1,753.50
624 9001	GROUND BOX (HS-20)	EA	4.0	\$ 1,500.00	\$ 2,100.00	\$ 6,000.00	\$ 8,400.00	40.00%	\$ (2,400.00)
628 2063	ELC SRV TY D 120/240 060 (NS)GS(N)SP(O	EA	1.0	\$ 2,060.21	\$ 2,100.00	\$ 2,060.21	\$ 2,100.00	1.93%	\$ (39.79)
628 2201	ELC SRV TY A 240/480 060 (NS)AL(E)SP(O	EA	2.0	\$ 3,150.00	\$ 4,000.00	\$ 6,300.00	\$ 8,000.00	26.98%	\$ (1,700.00)
628 2296	ELC SRV TY C 240/480 125 (NS)SS(E)PS(U	EA	1.0	\$ 5,000.00	\$ 7,000.00	\$ 5,000.00	\$ 7,000.00	40.00%	\$ (2,000.00)
636 2002	ALUMINUM SIGNS (TY G)	SF	1062.0	\$ 18.54	\$ 27.00	\$ 19,689.48	\$ 28,674.00	45.63%	\$ (8,984.52)
636 2003	ALUMINUM SIGNS (TY O)	SF	2961.3	\$ 20.88	\$ 19.00	\$ 61,831.94	\$ 56,264.70	-9.00%	\$ 5,567.24
636 2005	REFURBISH ALUMINUM SIGNS (TY G)	EA	2.0	\$ 1,228.50	\$ 1,000.00	\$ 2,457.00	\$ 2,000.00	-18.60%	\$ 457.00
636 2009	REPLACE EXISTING ALUMINUM SIGNS (TY O)	SF	184.5	\$ 22.12	\$ 33.00	\$ 4,081.14	\$ 6,088.50	49.19%	\$ (2,007.36)
644 2022	INS SM RD SN SUP&AM TY S80(1) SA(P)	EA	10.0	\$ 517.45	\$ 650.00	\$ 5,174.50	\$ 6,500.00	25.62%	\$ (1,325.50)

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ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
644 2025	INS SM RD SN SUP&AM TY S80(1) SA(T)	EA	27.0	\$ 610.82	\$ 800.00	\$ 16,492.14	\$ 21,600.00	30.97%	\$ (5,107.86)
644 2027	INS SM RD SN SUP&AM TY S80(1) SA(U)	EA	2.0	\$ 726.00	\$ 800.00	\$ 1,452.00	\$ 1,600.00	10.19%	\$ (148.00)
644 2058	RELOCATE SM RD SN SUP & AM TY S80	EA	4.0	\$ 468.45	\$ 600.00	\$ 1,873.80	\$ 2,400.00	28.08%	\$ (526.20)
644 2060	REMOVE SM RD SN SUP & AM	EA	7.0	\$ 88.74	\$ 200.00	\$ 621.18	\$ 1,400.00	125.38%	\$ (778.82)
644 2063	INS SM RD SN SUP&AM (RAIL MOUNT)	EA	6.0	\$ 2,132.11	\$ 2,000.00	\$ 12,792.66	\$ 12,000.00	-6.20%	\$ 792.66
647 2001	INSTALL LRSS (STRUCT STEEL)	LB	5106.4	\$ 2.86	\$ 6.00	\$ 14,604.30	\$ 30,638.40	109.79%	\$ (16,034.10)
647 2003	REMOVE LRSA	EA	1.0	\$ 425.00	\$ 1,100.00	\$ 425.00	\$ 1,100.00	158.82%	\$ (675.00)
650 2040	INS OH SN SUP(40 FT CANT)	EA	2.0	\$ 26,054.88	\$ 23,000.00	\$ 52,109.76	\$ 46,000.00	-11.72%	\$ 6,109.76
650 2055	INS OH SN SUP(50 FT BRDG)(SPAN ONLY)	EA	1.0	\$ 28,000.00	\$ 14,000.00	\$ 28,000.00	\$ 14,000.00	-50.00%	\$ 14,000.00
650 2068	INS OH SN SUP(65 FT BRDG)	EA	1.0	\$ 32,000.00	\$ 25,000.00	\$ 32,000.00	\$ 25,000.00	-21.88%	\$ 7,000.00
650 2074	INS OH SN SUP(70 FT BRDG)(CIRC TUBE)	EA	1.0	\$ 150,000.00	\$ 190,000.00	\$ 150,000.00	\$ 190,000.00	26.67%	\$ (40,000.00)
650 2078	INS OH SN SUP(75 FT BRDG)	EA	3.0	\$ 70,000.00	\$ 27,000.00	\$ 210,000.00	\$ 81,000.00	-61.43%	\$ 129,000.00
650 2079	INS OH SN SUP(75 FT BRDG)(CIRC TUBE)	EA	1.0	\$ 150,000.00	\$ 230,000.00	\$ 150,000.00	\$ 230,000.00	53.33%	\$ (80,000.00)
650 2080	INS OH SN SUP(75 FT BRDG)(SPAN ONLY)	EA	1.0	\$ 70,000.00	\$ 17,000.00	\$ 70,000.00	\$ 17,000.00	-75.71%	\$ 53,000.00
650 2088	INS OH SN SUP(85 FT BRDG)	EA	1.0	\$ 60,000.00	\$ 32,000.00	\$ 60,000.00	\$ 32,000.00	-46.67%	\$ 28,000.00
650 2173	REMOVE OVERHD SIGN SUP	EA	4.0	\$ 3,741.44	\$ 2,700.00	\$ 14,965.76	\$ 10,800.00	-27.84%	\$ 4,165.76
650 9001	INS OH SN SUP (70 FT BRDG)(SPAN ONLY)(DES ON	EA	2.0	\$ 70,000.00	\$ 25,000.00	\$ 140,000.00	\$ 50,000.00	-64.29%	\$ 90,000.00
650 9002	INS OH SN SUP (75 FT BRDG)(SPAN ONLY)(DES ON	EA	2.0	\$ 70,000.00	\$ 27,000.00	\$ 140,000.00	\$ 54,000.00	-61.43%	\$ 86,000.00
654 2002	SIGN WALKWAY (24 IN) WITH HNDRL	LF	317.0	\$ 190.00	\$ 220.00	\$ 60,230.00	\$ 69,740.00	15.79%	\$ (9,510.00)
654 2007	REMOVE SIGN WALKWAY	EA	4.0	\$ 728.67	\$ 1,800.00	\$ 2,914.68	\$ 7,200.00	147.03%	\$ (4,285.32)
658 2258	INSTL DEL ASSM (D-SW)SZ (TYC)CTB	EA	78.0	\$ 20.66	\$ 26.00	\$ 1,611.48	\$ 2,028.00	25.85%	\$ (416.52)
658 2277	INSTL DEL ASSM (D-SY)SZ (TYC)CTB	EA	72.0	\$ 21.68	\$ 26.00	\$ 1,560.96	\$ 1,872.00	19.93%	\$ (311.04)
658 2292	INSTL DEL ASSM (D-DW)SZ 1(F LX)GND	EA	5.0	\$ 46.65	\$ 65.00	\$ 233.25	\$ 325.00	39.34%	\$ (91.75)
658 2294	INSTL DEL ASSM (D-DW)SZ 1(F LX)SRF	EA	17.0	\$ 60.00	\$ 175.00	\$ 1,020.00	\$ 2,975.00	191.67%	\$ (1,955.00)
658 2295	INSTL DEL ASSM (D-DW)SZ 1(F LX)GF2	EA	3.0	\$ 29.99	\$ 58.00	\$ 89.97	\$ 174.00	93.40%	\$ (84.03)
658 2301	INSTL DEL ASSM (D-DY)SZ 1(F LX)GND	EA	8.0	\$ 66.00	\$ 62.00	\$ 528.00	\$ 496.00	-6.06%	\$ 32.00
662 2001	WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	LF	4020.0	\$ 0.26	\$ 0.30	\$ 1,045.20	\$ 1,206.00	15.38%	\$ (160.80)
662 2002	WK ZN PAV MRK NON-REMOV (W) 4" (DOT)	LF	605.0	\$ 0.41	\$ 0.50	\$ 248.05	\$ 302.50	21.95%	\$ (54.45)



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ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBBER)
662 2004	WK ZN PAV MRK NON-REMOV (W) 4" (SLD)	LF	20848.0	\$ 0.23	\$ 0.30	\$ 4,795.04	\$ 6,254.40	30.43%	\$ (1,459.36)
662 2012	WK ZN PAV MRK NON-REMOV (W) 8" (SLD)	LF	376.0	\$ 0.50	\$ 0.40	\$ 188.00	\$ 150.40	-20.00%	\$ 37.60
662 2032	WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	LF	19269.0	\$ 0.24	\$ 0.30	\$ 4,624.56	\$ 5,780.70	25.00%	\$ (1,156.14)
662 2056	WK ZN PAV MRK REMOV (REFL) TY II-C-R	EA	446.0	\$ 2.60	\$ 3.10	\$ 1,159.60	\$ 1,382.60	19.23%	\$ (223.00)
662 2064	WK ZN PAV MRK REMOV (W) 4" (BRK)	LF	249.0	\$ 0.82	\$ 2.00	\$ 204.18	\$ 498.00	143.90%	\$ (293.82)
662 2067	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	2631.0	\$ 0.70	\$ 1.00	\$ 1,841.70	\$ 2,631.00	42.86%	\$ (789.30)
662 2075	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	492.0	\$ 1.40	\$ 1.50	\$ 688.80	\$ 738.00	7.14%	\$ (49.20)
662 2099	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	1294.0	\$ 0.70	\$ 1.00	\$ 905.80	\$ 1,294.00	42.86%	\$ (388.20)
666 2003	REFL PAV MRK TY I (W) 4" (BRK)(100MIL)	LF	5220.0	\$ 0.33	\$ 0.40	\$ 1,722.60	\$ 2,088.00	21.21%	\$ (365.40)
666 2006	REFL PAV MRK TY I (W) 4" (DOT)(100MIL)	LF	28.0	\$ 0.90	\$ 2.50	\$ 25.20	\$ 70.00	177.78%	\$ (44.80)
666 2012	REFL PAV MRK TY I (W) 4" (SLD)(100MIL)	LF	8980.0	\$ 0.28	\$ 0.30	\$ 2,514.40	\$ 2,694.00	7.14%	\$ (179.60)
666 2015	REFL PAV MRK TY I (W) 6" (BRK)(100MIL)	LF	1247.0	\$ 0.40	\$ 0.50	\$ 498.80	\$ 623.50	25.00%	\$ (124.70)
666 2024	REFL PAV MRK TY I (W) 6" (SLD)(100MIL)	LF	23324.0	\$ 0.35	\$ 0.50	\$ 8,163.40	\$ 11,662.00	42.86%	\$ (3,498.60)
666 2033	REFL PAV MRK TY I (W) 8" (LNDP)(100MIL)	LF	233.0	\$ 0.75	\$ 0.80	\$ 174.75	\$ 186.40	6.67%	\$ (11.65)
666 2036	REFL PAV MRK TY I (W) 8" (SLD)(100MIL)	LF	11314.0	\$ 0.58	\$ 0.60	\$ 6,562.12	\$ 6,788.40	3.45%	\$ (226.28)
666 2042	REFL PAV MRK TY I (W) 12"(SLD)(100MIL)	LF	1592.0	\$ 2.55	\$ 3.10	\$ 4,059.60	\$ 4,935.20	21.57%	\$ (875.60)
666 2048	REFL PAV MRK TY I (W) 24"(SLD)(100MIL)	LF	176.0	\$ 6.01	\$ 5.00	\$ 1,057.76	\$ 880.00	-16.81%	\$ 177.76
666 2054	REFL PAV MRK TY I (W) (ARROW) (100MIL)	EA	13.0	\$ 107.00	\$ 90.00	\$ 1,391.00	\$ 1,170.00	-15.89%	\$ 221.00
666 2096	REFL PAV MRK TY I (W) (WORD) (100MIL)	EA	13.0	\$ 131.08	\$ 100.00	\$ 1,704.04	\$ 1,300.00	-23.71%	\$ 404.04
666 2111	REFL PAV MRK TY I (Y) 4" (SLD)(100MIL)	LF	7416.0	\$ 0.30	\$ 0.30	\$ 2,224.80	\$ 2,224.80	0.00%	\$ -
666 2120	REFL PAV MRK TY I (Y) 6" (SLD)(100MIL)	LF	21805.0	\$ 0.32	\$ 0.50	\$ 6,977.60	\$ 10,902.50	56.25%	\$ (3,924.90)
666 2141	REFL PAV MRK TY I (Y)(MED NOSE)(100MIL)	EA	1.0	\$ 209.88	\$ 235.00	\$ 209.88	\$ 235.00	11.97%	\$ (25.12)
666 2142	REF PAV MRK TY II (W) 4" (BRK)	LF	5220.0	\$ 0.20	\$ 0.20	\$ 1,044.00	\$ 1,044.00	0.00%	\$ -
666 2143	REF PAV MRK TY II (W) 4" (DOT)	LF	28.0	\$ 0.33	\$ 1.00	\$ 9.24	\$ 28.00	203.03%	\$ (18.76)
666 2145	REF PAV MRK TY II (W) 4" (SLD)	LF	8980.0	\$ 0.13	\$ 0.20	\$ 1,167.40	\$ 1,796.00	53.85%	\$ (628.60)
666 2146	REF PAV MRK TY II (W) 6" (BRK)	LF	1247.0	\$ 0.21	\$ 0.30	\$ 261.87	\$ 374.10	42.86%	\$ (112.23)
666 2149	REF PAV MRK TY II (W) 6" (SLD)	LF	23324.0	\$ 0.32	\$ 0.30	\$ 7,463.68	\$ 6,997.20	-6.25%	\$ 466.48
666 2152	REF PAV MRK TY II (W) 8" (LNDP)	LF	233.0	\$ 0.29	\$ 0.40	\$ 67.57	\$ 93.20	37.93%	\$ (25.63)

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ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
666 2153	REF PAV MRK TY II (W) 8" (SLD)	LF	11314.0	\$ 0.29	\$ 0.30	\$ 3,281.06	\$ 3,394.20	3.45%	\$ (113.14)
666 2155	REF PAV MRK TY II (W) 12" (SLD)	LF	1592.0	\$ 1.38	\$ 1.60	\$ 2,196.96	\$ 2,547.20	15.94%	\$ (350.24)
666 2157	REF PAV MRK TY II (W) 24" (SLD)	LF	176.0	\$ 2.54	\$ 2.00	\$ 447.04	\$ 352.00	-21.26%	\$ 95.04
666 2160	REF PAV MRK TY II (W) (ARROW)	EA	13.0	\$ 43.05	\$ 30.00	\$ 559.65	\$ 390.00	-30.31%	\$ 169.65
666 2173	REF PAV MRK TY II (W) (WORD)	EA	13.0	\$ 26.77	\$ 40.00	\$ 348.01	\$ 520.00	49.42%	\$ (171.99)
666 2178	REF PAV MRK TY II (Y) 4" (SLD)	LF	7416.0	\$ 0.14	\$ 0.20	\$ 1,038.24	\$ 1,483.20	42.86%	\$ (444.96)
666 2181	REF PAV MRK TY II (Y) 6" (SLD)	LF	21805.0	\$ 0.16	\$ 0.30	\$ 3,488.80	\$ 6,541.50	87.50%	\$ (3,052.70)
666 2188	REF PAV MRK TY II (Y) (MED NOSE)	EA	1.0	\$ 85.44	\$ 60.00	\$ 85.44	\$ 60.00	-29.78%	\$ 25.44
666 2216	REF PAV MRK TY I (BLACK) 6" (BRK)(100MIL)	LF	760.0	\$ 0.30	\$ 2.00	\$ 228.00	\$ 1,520.00	566.67%	\$ (1,292.00)
666 2218	REF PAV MRK TY II (BLACK) 6" (BRK)	LF	760.0	\$ 0.30	\$ 1.00	\$ 228.00	\$ 760.00	233.33%	\$ (532.00)
672 2017	REFL PAV MRKR TY II-C-R	EA	635.0	\$ 3.22	\$ 3.00	\$ 2,044.70	\$ 1,905.00	-6.83%	\$ 139.70
677 2001	ELIM EXT PAV MRK & MRKS ( 4")	LF	13141.0	\$ 0.46	\$ 1.50	\$ 6,044.86	\$ 19,711.50	226.09%	\$ (13,666.64)
677 2003	ELIM EXT PAV MRK & MRKS ( 8")	LF	768.0	\$ 0.62	\$ 2.00	\$ 476.16	\$ 1,536.00	222.58%	\$ (1,059.84)
677 2007	ELIM EXT PAV MRK & MRKS (24")	LF	290.0	\$ 3.05	\$ 3.00	\$ 884.50	\$ 870.00	-1.64%	\$ 14.50
5367 2002	CABLE BARRIER SYSTEM (TL-4)	LF	1800.0	\$ 8.25	\$ 9.00	\$ 14,850.00	\$ 16,200.00	9.09%	\$ (1,350.00)
5367 2008	CABLE BARRIER TERMINAL SECTION (TL-4)	EA	2.0	\$ 2,275.00	\$ 3,000.00	\$ 4,550.00	\$ 6,000.00	31.87%	\$ (1,450.00)
5582 2001	LANDSCAPE PAVER REPAIR	SF	32159.0	\$ 3.00	\$ 6.00	\$ 96,477.00	\$ 192,954.00	100.00%	\$ (96,477.00)
5665 9001	FILTER-SEPARATOR FABRIC	SY	62889.0	\$ 3.00	\$ 1.00	\$ 188,667.00	\$ 62,889.00	-66.67%	\$ 125,778.00
6122 9001	RELOCATE HIGH MAST LIGHTING (150 FT)	EA	3.0	\$ 22,140.00	\$ 12,000.00	\$ 66,420.00	\$ 36,000.00	-45.80%	\$ 30,420.00
6140 9001	NF-HMIP	EA	3.0	\$ 27,000.00	\$ 33,000.00	\$ 81,000.00	\$ 99,000.00	22.22%	\$ (18,000.00)
6140 9002	NF-HMIF	LF	80.0	\$ 500.00	\$ 450.00	\$ 40,000.00	\$ 36,000.00	-10.00%	\$ 4,000.00
6140 9003	NF-HMIA	EA	3.0	\$ 27,000.00	\$ 40,000.00	\$ 81,000.00	\$ 120,000.00	48.15%	\$ (39,000.00)
6200 9001	CONDUIT STRUCTURE 2-2"(SCH80) HDPE(TELE)	LF	1032.0	\$ 190.00	\$ 22.00	\$ 196,080.00	\$ 22,704.00	-88.42%	\$ 173,376.00
6280 9001	MODIFY EXISTING SERVICE	EA	2.0	\$ 3,000.00	\$ 510.00	\$ 6,000.00	\$ 1,020.00	-83.00%	\$ 4,980.00
6988 9001	DUCT BANK (SC&C)	LF	3460.0	\$ 130.00	\$ 50.00	\$ 449,800.00	\$ 173,000.00	-61.54%	\$ 276,800.00
6989 9001	UNDERGROUND CABLE VAULT (5'X5')	EA	8.0	\$ 5,250.00	\$ 6,100.00	\$ 42,000.00	\$ 48,800.00	16.19%	\$ (6,800.00)
8000 9001	REMOVE EXISTING CCTV FIELD EQUIPMENT	EA	1.0	\$ 3,500.00	\$ 900.00	\$ 3,500.00	\$ 900.00	-74.29%	\$ 2,600.00
8000 9002	RELOCATE EXISTING CCTV FIELD EQUIPMENT	EA	1.0	\$ 3,500.00	\$ 4,500.00	\$ 3,500.00	\$ 4,500.00	28.57%	\$ (1,000.00)



**290E Toll Project  
Direct Connectors at US 183  
Bid Evaluation Report Appendix**



ITEM NO	DESCRIPTION	UNITS	QUANTITY	ESTIMATED UNIT COST	W.W. WEBBER UNIT COST	ENGINEER'S ESTIMATE	W.W. WEBBER BID	VARIANCE	TOTAL COST DIFFERENCE (WEBER)
8000 9003	REMOVE EXISTING DMS SIGN AND STRUCTURE	EA	2.0	\$ 3,500.00	\$ 2,000.00	\$ 7,000.00	\$ 4,000.00	-42.86%	\$ 3,000.00
8000 9004	REMOVAL OF EXIST INT AMP (IA) CABINET	EA	1.0	\$ 7,000.00	\$ 500.00	\$ 7,000.00	\$ 500.00	-92.86%	\$ 6,500.00
8021 9001	MODULAR GLARE SCREENS	LF	2160.0	\$ 19.80	\$ 9.00	\$ 42,768.00	\$ 19,440.00	-54.55%	\$ 23,328.00
8021 9002	MODULAR GLARE SCREENS (REMOVE)	LF	2160.0	\$ 2.20	\$ 4.00	\$ 4,752.00	\$ 8,640.00	81.82%	\$ (3,888.00)
8147 9001	RELOCATE EXISTING OVERHEAD SIGN	EA	5.0	\$ 5,000.00	\$ 11,500.00	\$ 25,000.00	\$ 57,500.00	130.00%	\$ (32,500.00)
9998 9001	LIGHTNING PROTECTION SYSTEM	EA	1	\$ 38,000.00	\$ 25,000.00	\$ 38,000.00	\$ 25,000.00	-34.21%	\$ 13,000.00
TOTAL						\$ 75,021,795.71	\$ 52,575,545.77		

**CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**  
**290E TURNPIKE PROJECT - DIRECT CONNECTORS AT US 183 [CONTRACT NO. 10290E22701C]**  
**183A PHASE II PROJECT [CONTRACT #10183A24601C]**

**REFERENCE CHECKS FOR APPARENT LOW BIDDER**  
**W.W. WEBBER, LLC**

REFERENCE PROJECT	OWNER
SH 249 Bypass in Tomball, Texas [\$51.7 million]	Texas Department of Transportation Houston District [Montgomery Area Office]
I-45 Construct Interchange with NASA Road Bypass [\$54.5 million]	Texas Department of Transportation Houston District [Southeast Harris Area Office]
IH-35E Rebuild Freeway [\$62.6 million]	Texas Department of Transportation Dallas District [Ellis Area Office]
Various active projects in Houston metro area	Texas Department of Transportation Houston District [District Construction Office]